

PRODUCT NALCLEAN 2564 RESIN CLEANER

Emergency Telephone Number Medical (708) 920-1510 (24 hours)

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCLEAN 2564 RESIN CLEANER

DESCRIPTION: A combination of sodium sulfites

NFPA 704M/HMIS RATING: 3/3 HEALTH 1/1 FLAMMABILITY 2/2 REACTIVITY 0 OTHER

O=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

### SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredients as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazards.

INGREDIENTS CAS # APPROX.%

Sodium metabisulfite 7681-57-4 20-40 Sodium hydrosulfite 7775-14-6 40-70

#### SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION: May cause irritation to skin and eyes. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing dust. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

### SECTION 4 FIRST AID INFORMATION

EYES: Flush with water for 15 minutes. Call a physician.

SKIN: Flush with water for 15 minutes.

INGESTION: Induce vomiting. Give water. Call a physician.

INHALATION: Remove to fresh air. Treat symptoms.

NOTE TO PHYSICIAN: No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

### SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTES OF EXPOSURE: Eye, Skin, Inhalation

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#### SECTION 5 HEALTH EFFECTS INFORMATION

( CONTINUED )

EYE CONTACT:

Can cause moderate irritation.

SKIN CONTACT:

Can cause moderate irritation.

INGESTION:

Can be harmful.

Can cause hypersensitivity in susceptible individuals.

INHALATION:

Can cause severe respiratory irritation.

SYMPTOMS OF EXPOSURE:

ACUTE: Ingestion may cause nausea or vomiting.

AGGRAVATION OF EXISTING CONDITIONS: Ingestion of sodium sulfite may cause hypersensitivity, difficult breathing in susceptible individuals.

### SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have not been conducted on this product, but toxicity studies of the ingredient in Section 2 have been reviewed. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS): Sodium bisulfite  $LD_{50} = 2,000 \text{ mg/kg}$  Sodium hydrosulfite  $LD_{50} = 500 \text{ mg/kg}$ 

ACUTE DERMAL TOXICITY (ALBINO RABBITS): Sodium hydrosulfite LD<sub>5</sub> = 10 g/kg

### SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: White

FORM: Powder

BULK DENSITY:

75 lbs/ft<sup>3</sup>

SOLUBILITY IN WATER:

73 103/10

nti (-+ 50) -

Completely

pH (at 5%) =

2.9

ASTM E-70

ODOR: Lemon

FLASH POINT:

Not applicable

NOTE: These physical properties are typical values for this product.

### SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: Not applicable

EXTINGUISHING MEDIA: Small amounts of water or contact with highly humid air can cause a fire or create temperatures sufficient to ignite nearby combustible materials. In case of smoldering, spread out product before adding water. Avoid use of water unless flooding amounts are available for application and flushing. Use of carbon dioxide, dry chemical and dry sand is preferred. Wear

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### SECTION 8 FIRE AND EXPLOSION INFORMATION

( CONTINUED )

supplied air or self-contained breathing apparatus to protect from  $SO_2$  when water is added.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve SOx under fire conditions.

#### SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Oxidizing and acidic materials, moisture, temperatures above 120 degrees F.

STORAGE: Store in cool dry area away from oxidizing materials and acidic materials.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion SOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

### SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: If it is possible to generate dust, wear a NIOSH approved or equivalent dust respirator.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: Use general ventilation with local exhaust ventilation to maintain dust levels to within the TLV (see Section 14).

PROTECTIVE EQUIPMENT: Wear gloves, boots, aprons or a slicker suit to avoid skin contact. Chemical goggles and face shield are also recommended. An eye wash fountain should be available.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

### SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Solid spills: Sweep or vacuum up and reclaim into recovery or salvage drums for disposal. Wear the protective equipment specified in Section

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### SECTION 11 SPILL AND DISPOSAL INFORMATION

( CONTINUED )

10. Refer to CERCLA in Section 14.

If product becomes wet and starts generating heat, deluge the material with large quantities of water and flush to drain.

DISPOSAL: If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D003.

As a hazardous solid waste, it must be disposed of in a Hazardous Waste Treatment, Storage and Disposal facility in accordance with local, state and federal regulations.

### SECTION 12 ENVIRONMENTAL INFORMATION

### AQUATIC DATA:

96-hour static acute  $LC_{50}$  to Bluegill Sunfish = Greater than 10 ppm, less than 100 ppm

96-hour static acute  $LC_5$ , to Rainbow Trout = Greater than 10 ppm, less than 100 ppm

If released into the environment, see CERCLA in Section 14.

### SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - WATER REACTIVE SOLID, N.O.S.

FLAMMABLE SOLID UN 2813

DANGEROUS WHEN WET

- SODIUM HYDROSULFITE

### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

### FEDERAL REGULATIONS:

CONTAINS

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below.

Sodium metabisulfite - Irritant Sodium hydrosulfite - Irritant, flammable solid

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### SECTION 14 REGULATORY INFORMATION

( CONTINUED

Sodium metabisulfite = TWA 5 mg/m<sup>3</sup> ACGIH/TLV

CERCLA/SUPERFUND, 40 CFR 117, 302:
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

- XX Immediate (acute) health hazard
- -- Delayed (chronic) health hazard
- XX Fire hazard
- -- Sudden release of pressure hazard
- XX Reactive hazard

Under Section 311, submittal of MSDS's or a list of product names to the local emergency planning commission, state emergency response commission and local fire department is required after October 17, 1987 if you have:

- 10,000 pounds or more of a hazardous substance, or
- 500 pounds or the threshold planning quantity, whichever is less, of an extremely hazardous substance.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):
The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: If this product becomes a waste, it does meet the criteria of a hazardous waste as defined under RCRA 40 CFR 261 (consult Section 11).

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### SECTION 14 REGULATORY INFORMATION

( CONTINUED )

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311): None of the ingredients are specifically listed.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: This product does not contain ingredients covered by the Clean Air Act.

### STATE REGULATIONS:

#### CALIFORNIA PROPOSITION 65:

None of the chemicals on the current Proposition 65 list are known to be present in this product.

#### MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

#### STATE RIGHT TO KNOW LAWS:

The following ingredient(s) are disclosed for compliance with State Right To Know Laws:

Sodium hydrosulfite

7775-14-6

Sodium metabisulfite

7681-57-4

### INTERNATIONAL REGULATIONS:

This is a WHMIS controlled product under The House of Commons of Canada Bill C-70. The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its toxicological properties, to contain the following hazardous ingredient(s):

Chemical Name

CAS #

% Concentration Range

Sodium metabisulfite
Sodium hydrosulfite

7681-57-4 7775-14-6 20-40 40-70

### SECTION 15 ADDITIONAL INFORMATION

None

### SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety

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### SECTION 16 USER'S RESPONSIBILITY

( CONTINUED )

information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

### SECTION 17 BIBLIOGRAPHY

ANNUAL REPORT ON CARCINOGENS, U.S. Department of Health and Human Services, Public Health Service, PB 33-135855, 1983.

CASARETT AND DOULL'S TOXICOLOGY, THE BASIC SCIENCE OF POISONS, Doull, J., Klaassen, C. D., and Admur, M. O., eds., Macmillian Publishing Company, Inc., N. Y., 2nd edition, 1980.

CHEMICAL HAZARDS OF THE WORKPLACE, Proctor, N. H., and Hughes, J. P., eds., J. P. Lipincott Company, N.Y., 1981.

DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, Sax, N. Irving, ed., Van Nostrand Reinhold Company, N.Y., 6th edition, 1984.

IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO MAN, Geneva: World Health Organization, International Agency for Research on Cancer, 1972-1977.

PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, Clayton, G. D., Clayton, F. E., eds., John Wiley and Sons, N. Y., 3rd edition, Vol. 2 A-C, 1981.

REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, 1983 supplement of 1981-1982 edition, Vol. 1-3, OH, 1984.

Title 29 Code of Federal Regulations Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, American Conference of Governmental Industrial Hygienists, OH.

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SECTION 17 BIBLIOGRAPHY

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PREPARED BY: Ricky A. Stackhouse PhD., Toxicologist

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